| United | <b>States</b> | Patent | [19] |
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## Gotoh

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| [54]                                   | ILLUMINATING DISPLAY DEVICE                                       |                                       |  |  |
|--|---|---------------------------------------|--|--|
| [75]                                   | Inventor:   | Masaki Gotoh, Sendai, Japan           |  |  |
| [73]                                   | Assignee:   | Alps Electric Co., Ltd., Tokyo, Japan |  |  |
| [21]                                   | Appl. No.:  | 457,907                               |  |  |
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| [30] Foreign Application Priority Data |   |                                       |  |  |
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|  |   |                                       |  |  |
| [58]                                   | Field of Sea  | arch                                  |  |  |
| [56]                                   |   | References Cited                      |  |  |
| U.S. PATENT DOCUMENTS                  |   |                                       |  |  |
| 3                                      | 2,953,668 9/1<br>3,264,769 8/1<br>4,511,760 4/1<br>4,777,480 10/1 | 966 Hardesty                          |  |  |

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## [57] ABSTRACT

An illuminating device including a first light source, a second light source and light guiding means, all provided behind an indicating panel having a first indicating area and a second indicating area formed adjacent to each other. The first light source is located at a position opposed to the first indicating area for illuminating the first indicating area. The second light source is so located as to illuminate the second indicating area through the light guiding means. The light guiding means is constructed of a transparent plate-like light guiding member for guiding light from the second light source to the second indicating area. The light guiding member is interposed between the indicating panel and the first light source. The light guiding member is capable of transmitting light from the first light source across a thickness of the light guiding member.

## 3 Claims, 2 Drawing Sheets

